

Transparent LED Screen

Basic Knowledge

Catalog

The background features a dark grey silhouette of a city skyline with several figures in various poses. Large, semi-transparent letters 'P', 'A', 'M', and 'N' are overlaid on the scene. Two solid teal rectangular blocks are positioned vertically on the left side of the page.

1, Product Position

1.1 What type of product is it ?

2.2 Application scenarios

2, Product features

2.1 Scheme

2.2 Principle

3. Core Technology

4. Paramter

5. Instructuion for installation

3, Value

3.1. What issure does it can do for the clients?

3.2 When do we recommend it for the client?

3.3 Strength

4, Project Case

4.1 Analysis of Chengdu Wenshu Monastery' project

a.Chengdu Wenshu Monastery' s background

b. Solution

c. Achievement

4.2 Classical Case

01

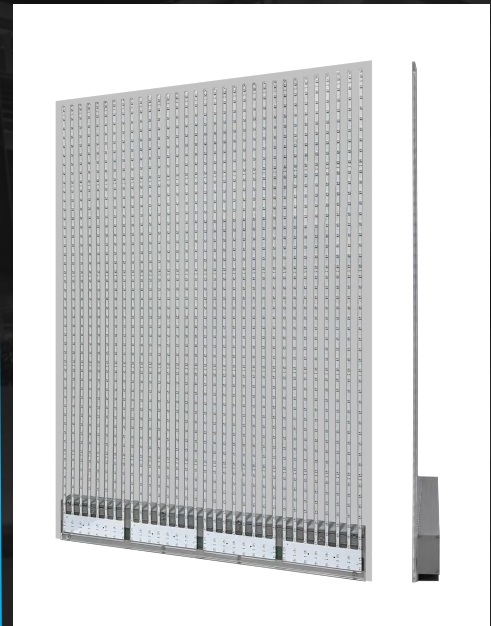
Product Position

What type of product is it ?

What type of product is it ?

This is an LED display product that can be mounted. It is a product of the transparent series in the large family of LED displays. The positioning of the Transparent Stick LED Digital Screen is that it is highly customizable, and we can understand that this is a customized product. Where traditional transparent screens are difficult to install, it can be installed, thanks to its core technology of integrated light driver.

"No size restrictions, any cutting", this is the essence of the transparent Stick LED Digital Screen .



Application scenarios

It is used in glass curtain walls of buildings, urban landmark high-rise buildings, glass windows of shops along the street, banks, real estate, automobile 4S stores, automatic opening and closing doors, etc.

It not only integrates all the advantages of conventional outdoor high-definition LED displays, but also eliminates urban aesthetic problems to the greatest extent. Because it is mostly installed behind a glass curtain wall, it will not have any impact on the surrounding environment even when it is not working during the day. At the same time, because it adopts a new form of indoor advertising and outdoor communication, it can well circumvent the approval of outdoor advertising.

It is light and thin, does not require a steel frame structure, is easy to install and maintain, and has good permeability. It can be said to hit it off with the glass curtain wall. Not only does it have no sense of incompatibility when applied to the glass curtain wall, but also because it is fashionable, beautiful, and full of modernity. The sense and technological atmosphere add a special sense of beauty to urban architecture.



Glass windows of shops



Real estate



Automatic opening and closing doors



Bank



02

Product Features

02

Product features点

Light and thin

- The body is light in weight and has no pressure on the glass.
- Thickness: about 4mm, weight 3-6kg/square meter



Easy Installation

- Easy to install, directly attached to the glass surface.
- Then connect the signal and power



Wider view

- The up, down, left, and right field of view is up to 140 degrees, and there are no blind spots when viewing.
- No color cast, images are always perfect and seamless



Transparent

- The structure is extremely simple and has high permeability, which does not affect the lighting of the glass curtain wall. Permeability is as high as 85% or more

Cost-effective

- Product installation does not require additional steel frame structures and does not require changes to architectural appearance, effectively reducing transportation and installation

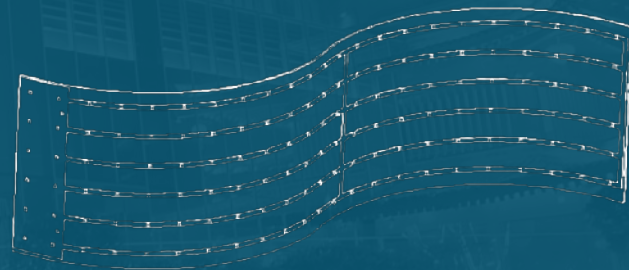
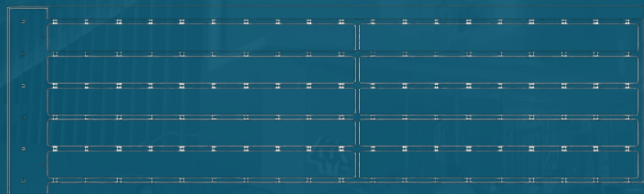


High flexibility

- The maximum single box size can be 960mm*1500mm, Reach more than 4500CD/m²
- The maximum length of a single piece of glass is 3 meters, without a power box in the middle. Can be bent and cut, no size restrictions, flexible according to
- The design is flexible and can be attached to any curvature of glass/wall



Scheme



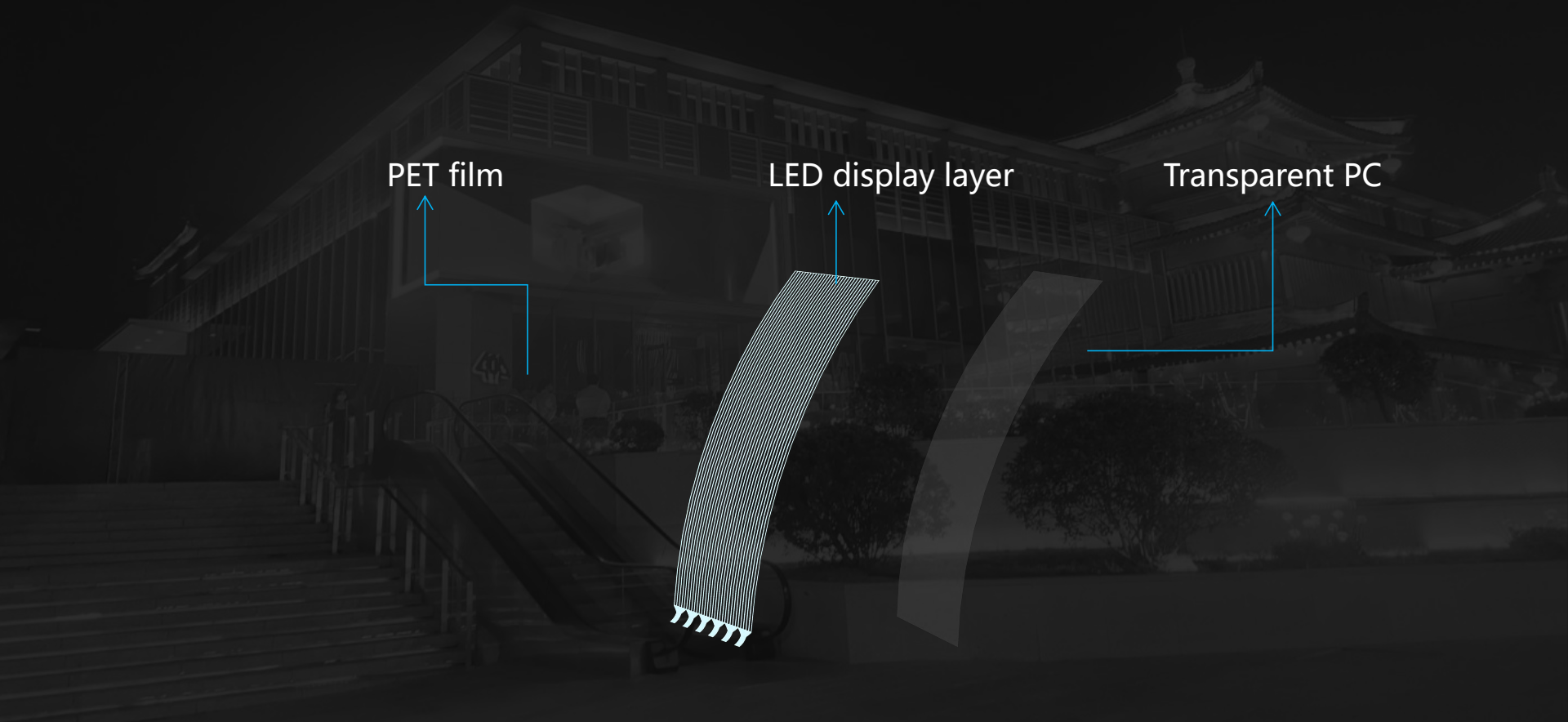
Module Scheme

Analysis of Principle

PET film

LED display layer

Transparent PC



Core Technology

Independently develop embedded driver IC, True 16-bit grayscale, Breakpoint resume function

Built-in driver IC design, integrated lamp driver,
Every LED light is a "power source",
Make wiring more free and heat dissipation more even,
More precise control! The light-emitting chip adopts micro Meter-level light source,
transparent, high-resistance
Warm, anti-static, dust-proof, moisture-proof, flesh-proof
The driver chip is not visible to the naked eye.

Using constant current, low voltage static state driven mode

Using constant current, low voltage static drive driving mode, constant current drive extremely flows through
The current of the lamp tube is constant, and with
Correspondingly, there is constant voltage drive (voltage constant). Constant current driven luminous stabilizer
Better qualitative, the current does not change with temperature changes.

Signal series connection

Unique series drive technology, consistent with common
Comparison of large-scale display drivers with more
Good advantages, design simplification, interference
Reduction, radiation reduction, current accuracy. More precise control, etc.

Paramter

Item	Unite	Parameter	Parameter	Parameter	Parameter
Product Type		DM4/8	DM6.5	DM10	DM20
SMD Type	SMD	2121	2121	2121	2121
Resolution	dot/m ²	31250	23668	10000	2500
Module Size	mm	960(H)X256(W)	962(H)X208(W)	960(H)X320(W)	960(H)X320(W)
Screen composition		Highly transparent and high temperature resistant flame retardant PC			
Weight	kg/m ²	6	6	6	6
Permeability	%	60	55	85	85
Brightness	cd/m ²	≥4000	≥5000	≥5000	≥3000
Refresh	Hz	≥3840	≥3840	≥3840	≥3840
Scanning		static	static	static	static
Max	W/m ²	800	800	600	600
Ave	W/m ²	300	300	200	200
Installation method		Hoisting or fixed installation, mounting			
Maintenance		Front/Rear			
Brightness control level		256			
Work Voltage		DC5V			
Grey	bit	16bit			
IP	IP	IP30			
View	度 °	Horizontal≥15degree, Vertical≥150degree			
Input Voltage		AC95V~240V			
Work Temperature	°C	-20~65			
Work Humidity		10%~90RH			
Lifetime		>100,000hours			

Instruction for installation

The installation is divided into indoor viewing and outdoor viewing.

**indoor
viewing**

The brightness is relatively low, the heat generation is low, and the structure allows, It can be installed against the glass and directly attached to the glass using film.

**outdoor
viewing**

The brightness will be relatively high, the power of the screen will increase, and the heat generation will also increase. Glass will also absorb heat from outdoor sunlight, so during installation the screen will not be close to the glass, but will be 5-10mm away from the inner surface of the glass. If the installation distance is too far, due to the refraction of light, the effect of viewing the screen display outdoors will not be that good.



Core Value

What issue does it can do for the clients?

Permeability

Outdoor HD, appearance layer
Maximum surface transparency

Beautiful building walls

No steel structure,
Lightweight material

When do we recommend it for the client?

~Don't want to go through the large-screen approval process~

Strength

It has the characteristics of high transparency and ultra-thinness. It can be bent and cut at will, and the size can be customized according to the application scenario. It is easy to install and can be installed directly inside and outside the building's glass curtain wall without structural obstruction and will not affect the original structure, appearance, and indoor lighting of the building.

1

The thickness is 4mm, which combines flexibility with a certain degree of strength.

2

Weight 4-7kg/square meter.

3

Single point power: between 0.06W-0.1W.

4

The length can be cut at any point.

5

Support Customized Service



04
Project Case
04

Chengdu Wenshu Monastery' s background

Chengdu Wenshu Monastery



Solution



The client required transparency, which should not affect the lighting, and since there is a corridor behind the curtain wall, it should be as tidy, beautiful as possible. Based on the actual situation, we recommended the P10 Transparent stick LED Screen to our customers.

Achievemnt



Light on



Light off

Classic Case



Light off



Light on

Real pictures



Perfect fit
Curtain
Frame



The windows
are
Normal
opening and
closing



Comparison

Transparent LED screens



Compared with Transparen Stick LED Screen, transparent LED screens have more steel structures. Unsightly, messy

The film screen does not have any steel structure. Perfectly fits the glass curtain wall and does not affect the opening and closing of the window

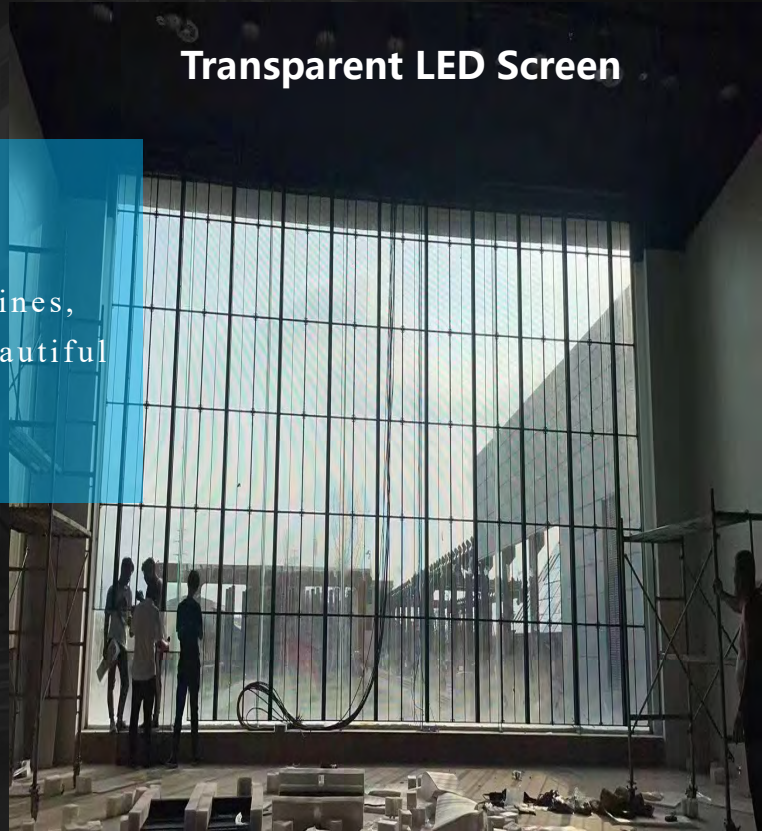


Transparent stick LED Screen

Comparison

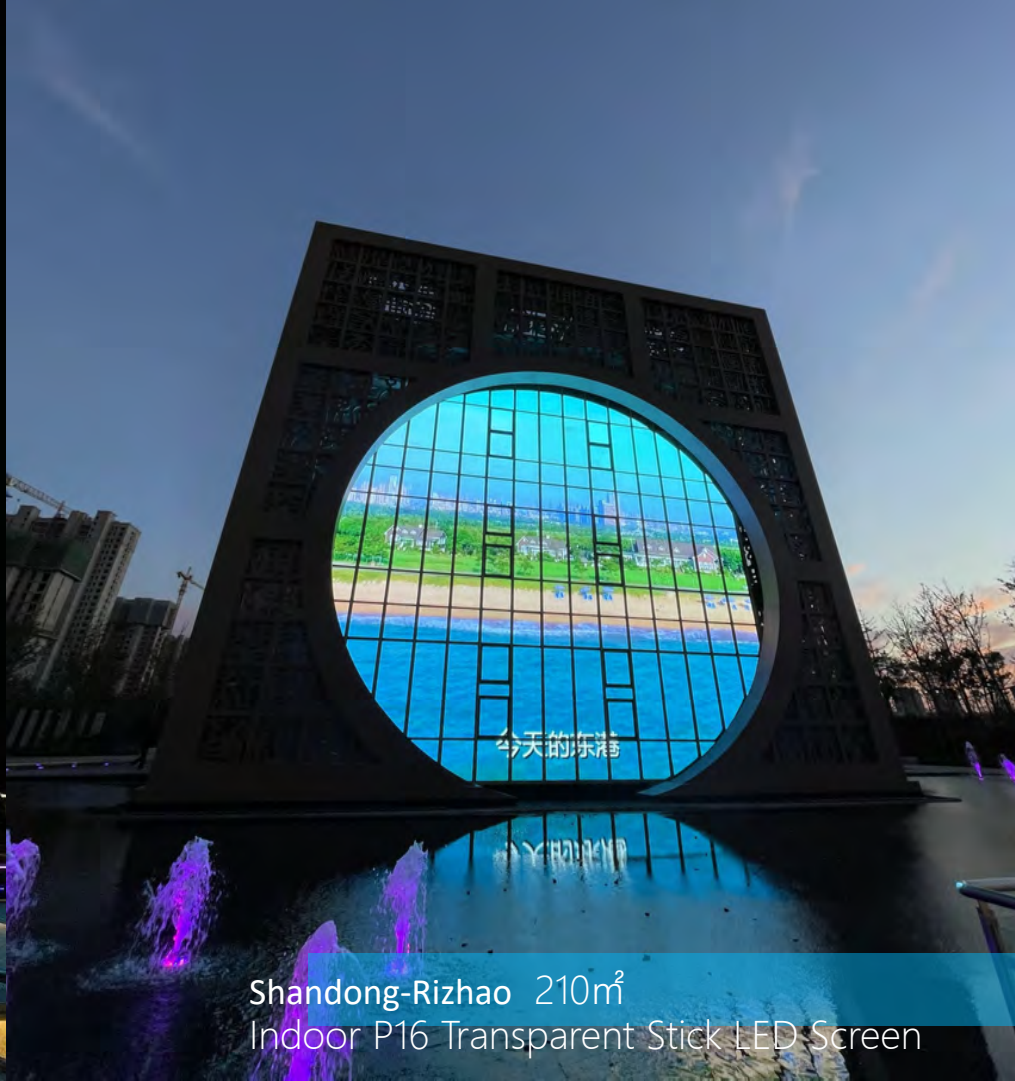
Transparent LED Screen

No steel structure, lines,
Neat, generous and beautiful



Transparent stick LED Screen





Shandong-Rizhao 210m²
Indoor P16 Transparent Stick LED Screen



肇庆万达国家度假区
ZHAOQING WANDA NATIONAL RESORT

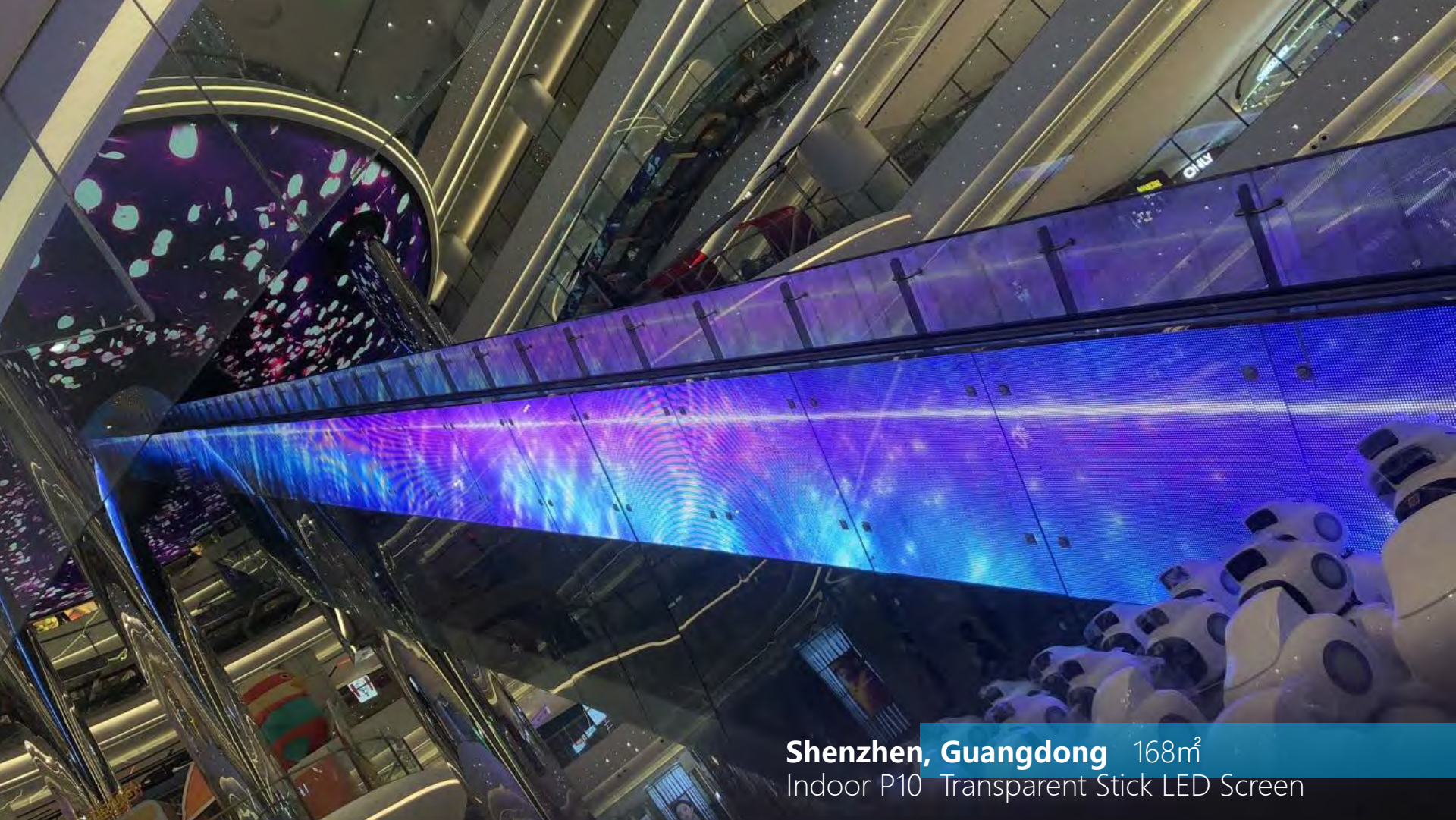
肇庆万达国家度假区
展示中心内部开放

ZHAOQING WANDA
NATIONAL RESORT

Guangdong-Zhaoqing 258m²
Indoor P10 Transparent Stick LED Screen



Chengdu-Sichuan 200m²
Indoor P10 Transparent Stick LED Screen



Shenzhen, Guangdong 168m²
Indoor P10 Transparent Stick LED Screen



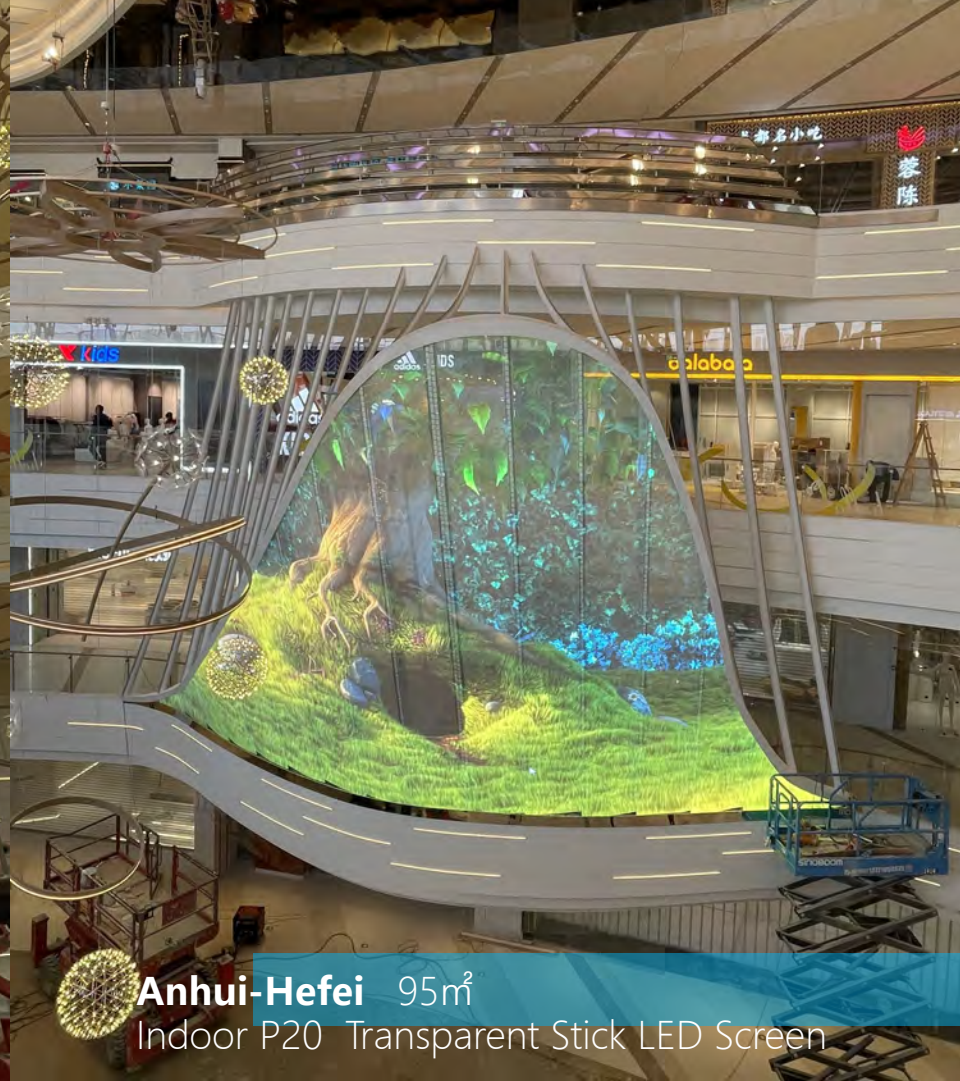
Shenzhen, Guangdong 210m²
Indoor P10 Transparent Stick LED Screen



Wenzhou, Zhejiang 220m²
Indoor P20 Transparent Stick LED Screen



Zhejiang-Fenghua 220m²
Indoor P20 Transparent Stick LED Screen



Anhui-Hefei 95m²
Indoor P20 Transparent Stick LED Screen



THANK YOU!